

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference  LR/G-33815A/LEK	<b>FOR FURTHER ACTION</b>  see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No.  PCT/EP2005/002107	International filing date (day/month/year)  28/02/2005	(Earliest) Priority Date (day/month/year)  01/03/2004
Applicant  LEK PHARMACEUTICALS D.D.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the International application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☒ Certain claims were found unsearchable (See Box II).

3. ☐ Unity of invention is lacking (see Box III).

**4. With regard to the title,**

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

**5. With regard to the abstract,**

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

**6. With regard to the drawings,**

a. the figure of the drawings to be published with the abstract is Figure No. \_\_\_\_\_

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☒ none of the figures is to be published with the abstract.

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2005/002107

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61K31/4184 A61K31/695 A61K9/28 C07D403/10 C07C67/48

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61K C07D C07C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, BIOSIS

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	US 6 740 775 B1 (PFLAUM ZLATKO 'SI!) 25 May 2004 (2004-05-25) cited in the application paragraphs '0031!, '0047! - '0050!; claims 6,20	14-16
X	----- WO 01/43723 A (BIOGAL GYOGYSZERGYAR RT; TEVA PHARMACEUTICALS USA, INC; KERI, VILMOS;) 21 June 2001 (2001-06-21) cited in the application page 1, line 16 - line 23; claims 1-73	14-16
X	----- WO 03/048135 A (TEVA PHARMACEUTICAL INDUSTRIES LTD; TEVA PHARMACEUTICALS USA, INC; DOL) 12 June 2003 (2003-06-12) paragraphs '0080!, '0095! ----- -/--	1,13,15, 16

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

14 July 2005

Date of mailing of the international search report

02/08/2005

Name and mailing address of the ISA

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## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2005/002107

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 225 202 A (HODGES ET AL) 6 July 1993 (1993-07-06) claim 30; examples 1,2 -----	1,13-16
A	WO 01/93859 A (LEK PHARMACEUTICAL AND CHEMICAL COMPANY D.D; PFLAUM, ZLATKO; MILIVOJEV) 13 December 2001 (2001-12-13) page 1; claims 17-21 page 16, line 8 - line 10 -----	1-16
A	US 5 140 037 A (CHIU ET AL) 18 August 1992 (1992-08-18) the whole document -----	1-16

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Although claim 16 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

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Continuation of Box II.1

Claims Nos.: 9

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy

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Continuation of Box II.2

Claims Nos.: 9

The scope of claim 9 is neither concise nor clear due to the wording "pattern substantially similar to that Figure 2 of US 6740775".

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/EP2005/002107

## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 9  
because they relate to subject matter not required to be searched by this Authority, namely:  
Although claim 16 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☒ Claims Nos.: 9  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2005/002107

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6740775	B1	25-05-2004	SI 20305 A 28-02-2001
			AT 287389 T 15-02-2005
			AU 6010900 A 05-03-2001
			BG 106389 A 30-09-2002
			CA 2379335 A1 15-02-2001
			CZ 20020414 A3 17-07-2002
			DE 60017568 D1 24-02-2005
			DK 1200385 T3 23-05-2005
			EP 1200385 A1 02-05-2002
			HR 20020106 A1 30-04-2003
			HU 0202536 A2 28-01-2003
			WO 0110813 A1 15-02-2001
			JP 2003506424 T 18-02-2003
			NZ 516685 A 30-01-2004
			PL 365850 A1 10-01-2005
			SK 1742002 A3 04-06-2002
			ZA 200200437 A 17-01-2003
WO 0143723	A	21-06-2001	AU 779306 B2 13-01-2005
			AU 2098701 A 25-06-2001
			CA 2394200 A1 21-06-2001
			CN 1434702 A 06-08-2003
			CZ 20021998 A3 12-02-2003
			EP 1242051 A1 25-09-2002
			EP 1523978 A2 20-04-2005
			HU 0204005 A2 28-03-2003
			JP 2003516959 T 20-05-2003
			JP 2005120105 A 12-05-2005
			PL 364929 A1 27-12-2004
			SK 8312002 A3 02-05-2003
			WO 0143723 A1 21-06-2001
			US 2001041809 A1 15-11-2001
			ZA 200204500 A 05-06-2003
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			CA 2465597 A1 12-06-2003
			EP 1458693 A1 22-09-2004
			ES 2234451 T1 01-07-2005
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			AU 5096000 A 17-12-2001
			CZ 20024015 A3 16-04-2003
			EP 1296672 A1 02-04-2003
US 5140037	A	18-08-1992	CA 2078106 A1 21-09-1991
			EP 0524946 A1 03-02-1993
			EP 0803252 A2 29-10-1997
			JP 5505601 T 19-08-1993
			WO 9114367 A1 03-10-1991